

Internal Correspondence



Memo To: P. Peacock

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From: B. Counts

Date: November 1, 1984

Subject: 51-A V1103 Results

Memo No: BC-84-36

The following are test results from the performance sections of the 51-A V1103.03 conducted on October 31, 1984. During this checkout, an astronaut commented that the O₂ actuator on SEMU 1052 (PLSS 1007) seemed stiffer to operate than the other two units.

	<u>EV-1 (1051-9)</u>	<u>EV-2 (1052-7)</u>	<u>B/U (1054-6)</u>
Temp	80° F	80.2° F	80.2° F
Humidity	17%	16.4%	17.2%
Pressure	14.65 psia	14.73 psia	14.73 psia
Fan ON	19:15 GMT	19:54 GMT	14:22 GMT
IV Mode	19:15 GMT	19:54 GMT	14:22 GMT
Fan OFF	19:35 GMT	20:05 GMT	14:34 GMT
<u>SCU Power</u>			
Battery Volts	20.5V	20.6V	20.4V
Battery Amps	0.0A	0.0A	0.0A
Fan RPM	19.8K	19.5K	19.7K
SOP Press	6390 psi	6290 psi	6300 psi
CO ₂ Conc.	0.4 mmHg	0.6 mmHg	0.5 mmHg
H ₂ O Temp @ Full Cold	71° F	73° F	72° F
Suit Pressure	0.8 psi	0.8 psi	0.9 psi
Bottle Pressure	802 psi	887 psi	880 psi
Airlock Pressure	14.4 psi	14.6 psi	14.6 psi
O Gas Pressure	14.8 psi	14.7 psi	14.4 psi
O ₂ Water Pressure	14.8 psi	14.8 psi	15.0 psi

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51-A V1103 Results

Battery Power

Time EVA	0:02	0:02	0:01
Time Left	6:50	6:50 hrs	6:50 hrs
O ₂ Left	108%	108%	109%
Power Left	100%	100%	100%
Battery Volts	17.0V	17.4V	17.6V
Battery Amps	2.5A	2.8A	2.6A
Fan RPM	19.7K	19.6K	19.7K
SOP Pressure	6390 psi	6290 psi	6310 psi
CO ₂ Conc.	0.3 mmHg	0.5 mmHg	0.5 mmHg
H ₂ O Temperature	62 F	64 F	63 F
Suit Pressure	0.8 psi	0.8 psi	0.9 psi
Bottle Pressure	912 psi	914 psi	923 psi
Airlock Pressure	14.4 psi	14.6 psi	14.6 psi
H ₂ O Gas Pressure	14.8 psi	14.7 psi	14.4 psi
H ₂ O Water Pressure	14.8 psi	14.9 psi	15.0 psi

Vent Mode

Display RPM	19.1K	18.8K	19.2K
SCU Volts	18.4V	18.4V	18.4V
SCU Amps	4.12A	4.3A	4.25A

No Vent Mode

Display RPM	19.8K	19.5K	19.7K
SCU Volts	18.4V	18.4V	18.5V
SCU Amps	2.54A	2.6A	2.5A
Regulator Check (DCM)	4.4 psi Press 0.8 psi IV	4.2 psi Press 0.8 psi IV	4.3 psi Press 0.9 psi IV
SOP Check (DCM)	6390 psi	6290 psi	6310 psi
SOP Gage	6400 psi	6350 psi	6200 psi
Suit Pressure	3.6 psi	3.6 psi	3.7 psi
Bottle Top Off	912 psi	916 psi	929 psi

Barbara Counts
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PC/sz